Configuration Management With Chef Solo Rahman Naveed Ur

Splunk Best PracticesCustomizing ChefJava CookbookLearning AnsibleLearning ChefImplementing ChefInstant Chef StarterThe Practice of Cloud System AdministrationPractical DevOpsBuilding MicroservicesHello, StartupEstablishing a Secure Hybrid Cloud with the IBM PureApplication FamilyVagrant Virtual Development Environment CookbookCreating Development Environments with Vagrant - Second EditionTest-Driven Infrastructure with ChefThe Art of Game DesignLearning ChefMastering ChefConfiguration Management with Chef-SoloMining the Social WebA Practical Guide to Continuous DeliveryThe Logstash BookWhy's (Poignant) Guide to RubyInfrastructure as Code (IAC) CookbookAWS Certified Developer Official Study Guide, Associate ExamChef Infrastructure Automation Cookbook - Second EditionDocker in PracticeClient-Server Web Apps with JavaScript and JavaPragmatic Thinking and LearningManaging Windows Servers with ChefGitLab CookbookAnsible for DevOpsTest-Driven Infrastructure with ChefLearning ChefChef Complete GuideManaging Infrastructure with PuppetChef Cookbook - Third EditionHands-On DevOps with VagrantImplementing DevOps with Microsoft AzureMySQL Cookbook

Splunk Best Practices

Get a hands-on introduction to the Chef, the configuration management tool for solving operations issues in enterprises large and small. Ideal for developers and sysadmins new to configuration management, this guide shows you to automate the packaging and delivery of applications in your infrastructure. You'll be able to build (or rebuild) your infrastructure's application stack in minutes or hours, rather than days or weeks. After teaching you how to write Ruby-based Chef code, this book walks you through different Chef tools and configuration management concepts in each chapter, using detailed examples throughout. All you need to get started is command-line experience and familiarity with basic system administration. Configure your Chef development environment and start writing recipes Create Chef cookbooks with recipes for each part of your infrastructure Use Test Kitchen to manage sandbox testing environments Manage single nodes with Chef client, and multiple nodes with Chef Server Use data bags for storing shared global data between nodes Simulate production Chef Server environments with Chef Zero Classify different types of services in your infrastructure with roles Model life stages of your application, including development, testing, staging, and production

Customizing Chef

Anyone can master the fundamentals of game design - no technological expertise is necessary. The Art of Game Design: A Book of Lenses shows that the same basic principles of psychology that work for board games, card games and athletic games also are the keys to making top-quality videogames. Good game design happens when you view your game from many different perspectives, or lenses. While touring through the unusual territory that is game design, this book gives the reader one hundred of these lenses - one hundred sets of insightful questions to ask yourself that will help make your game better. These lenses are gathered from fields as diverse as psychology, architecture, music, visual design, film, software engineering, theme park design, mathematics, writing, puzzle design, and anthropology. Anyone who reads this book will be inspired to become a better game designer - and will understand how to do it.

Java Cookbook

A new book designed for SysAdmins, Operations staff, Developers and DevOps who are interested in deploying a log management solution using the open source tool Logstash. In this book we will walk you through installing, deploying, managing and extending Logstash. We'll teach you how to: * Install and deploy Logstash. * Ship events from a Logstash Shipper to a central Logstash server. * Filter incoming events using a variety of techniques. * Output those events to a selection of useful destinations. * Use Logstash's awesome web interface Kibana. * Scale out your

Logstash implementation as your environment grows. * Quickly and easily extend Logstash to deliver additional functionality you might need. By the end of the book you should have a functional and effective log management solution that you can deploy into your own environment.

Learning Ansible

Accelerate and Automate Build, Deploy, and Management of applications to achieve High Availability. About This Book This guide highlights tools that offer development and deployment environments for application services Secure and continuously monitor your web application in order to make it highly available Use Visual Studio Team Services for Continuous Integration and Continuous Development to expedite your application life cycle management process Use Microsoft Azure App Services (Azure Web Apps / Azure Websites), PaaS offering from Microsoft to deploy web application Who This Book Is For This book is for DevOps engineers, system administrators, and developers (.net) who want to implement DevOps for their organization. You do not need to have any knowledge of VSTS or Azure App Services (Azure Web Apps / Azure Websites). What You Will Learn Explore the features of PaaS and aPaaS in DevOps Use Visual Studio Team Services (VSTS) to manage versions of code and integrating VSTS with Eclipse IDE Understand and configure Continuous Integration in VSTS Review Unit Test Execution for Automated Testing Create different environments that can be used

to continuous deploy a web application Configure Roll-based Access to enable secure access for Azure Web Apps Create and configure the App Service Environment to enhance security Understand the execution of the end-to-end automation process Conduct Performance Testing using JMeter Discover the different monitoring options available in Microsoft Azure Portal In Detail This book will teach you all about the Visual Studio Team Services and Microsoft Azure PaaS offerings that support Continuous Integration, Continuous Delivery, Continuous Deployment, and execution in the cloud with high availability, disaster recovery, and security. You will first be given a tour of all the concepts and tools that Microsoft Azure has to offer and how these can be used in situations to cultivate the DevOps culture. You'll be taught how to use and manage Visual Studio Team Services (VSTS) and about the structure of the sample application used throughout the book. You will become familiar with the nitty gritty of Continuous Integration and Continuous Development with VSTS and Microsoft Azure Apps. You will not only learn how to create App service environments, but also how to compare Azure Web Apps and App Service Environments to deploy web applications in a more secure environment. Once you have completed Continuous Integration and created the Platform for application deployment, you will learn more about the final stepping stone in achieving end-to-end automation using approval-based Continuous Delivery and Deployment. You will then learn about Continuous Monitoring, using the monitoring and notification options provided by Microsoft Azure and Visual Studio Team Services. Style and Approach This book is an easy-to-

follow guide filled with examples and real-world applications for gaining an in-depth understanding of Microsoft Azure and Visual Studio. This book will help you leverage Microsoft Azure and Visual Studio using real-world examples.

Learning Chef

If you are a system administrator, Linux administrator, cloud developer, cloud administrator, or someone who just wants to learn and apply Chef automation to your existing or new infrastructure, this book is for you. Some real-time understanding of IT processes and familiarity with Linux systems, Ruby, and JSON is essential.

Implementing Chef

This is a step-by-step guide, full of hands-on examples of real-world deployment tasks. Each topic is explained and placed in context, while also pointing out the key details of the concepts used. This book is aimed at system administrators and system engineers who have an understanding of configuration management tools and infrastructure. For novice administrators, it contains easy-to-use application recipes to get started immediately.

Instant Chef Starter

Take advantage of Chef's highly customizable design to tackle specific automation issues that you can't solve by simply using Chef's tools, resources, and services out of the box. With this practical guide, you'll examine the internal structure of this configuration management technology and learn where, how, and why to add custom code. Author Jon Cowie not only provides code snippets and practical advice for customizing Chef, but also helps you determine case by case whether it's in your best interests to customize at all. If you have intermediate-to-advanced Chef experience, this book is indispensable. Explore Chef's typical setups and why you'd want to customize them Learn the Ruby concepts needed to write customizations Customize the Chef run process and explore Chef's internal classes Gain more insight into your Chef runs through handlers and Chef's event stream Level up your Chef recipes by writing your own resources and providers Create and extend plugins for Knife—Chef's command-line tool Interact with the Chef API to write scripts and reports Learn how to contribute customizations to the Chef community

The Practice of Cloud System Administration

"Bring behavior-driven development to infrastructure as code"--Cover.

Practical DevOps

Get a hands-on introduction to the Chef, the configuration management tool for solving operations issues in enterprises large and small. Ideal for developers and sysadmins new to configuration management, this guide shows you to automate the packaging and delivery of applications in your infrastructure. You'll be able to build (or rebuild) your infrastructure's application stack in minutes or hours, rather than days or weeks. After teaching you how to write Ruby-based Chef code, this book walks you through different Chef tools and configuration management concepts in each chapter, using detailed examples throughout. All you need to get started is command-line experience and familiarity with basic system administration. Configure your Chef development environment and start writing recipes Create Chef cookbooks with recipes for each part of your infrastructure Use Test Kitchen to manage sandbox testing environments Manage single nodes with Chef client, and multiple nodes with Chef Server Use data bags for storing shared global data between nodes Simulate production Chef Server environments with Chef Zero Classify different types of services in your infrastructure with roles Model life stages of your application, including development, testing, staging, and production

Building Microservices

Hello, Startup

Build your infrastructure automation stack in minutes or hours instead of days and weeksAbout This Book* Successfully implement Chef in your organization without having a strong set of pre-requisites* Manage small or large number of nodes smoothly and model your infrastructure accordingly* Leverage Chef to manage your infrastructure efficiently and save cost and timeWho This Book Is ForThis book is ideal for developers, sysadmins, and IT professionals new to configuration management and Chef. Basic familiarity with system administration and knowledge of command line tools is expected.What you will learn* Layer out the various levels of configuration abstraction* Configure a workstation for Chef* Deep-dive into the Chef workflow* Learn how to control Test Kitchen for functional testing* Write templates using Embedded Ruby* Use Chef Zero and Chef Server for your infrastructure configuration* Use Berkshelf for dependency managementIn DetailThis is an introductory level book on implementing and deploying Chef in your organization for automation and configuration management.This book starts by showing how to setup, package, and deliver your applications. Next, you will learn how to write Chef code and verify it works. The first half of this book will cover essential components of client-side Chef with Test Kitchen, Chef Solo, and Cookbooks. The later half of the book will cover methods and tools related to Chef server, Chef Zero and how to perform configuration management.By the end of the

book, you will learn how to successfully implemented Chef for IT automation and configuration management.

Establishing a Secure Hybrid Cloud with the IBM PureApplication Family

Using Continuous Delivery, you can bring software into production more rapidly, with greater reliability. A Practical Guide to Continuous Delivery is a 100% practical guide to building Continuous Delivery pipelines that automate rollouts, improve reproducibility, and dramatically reduce risk. Eberhard Wolff introduces a proven Continuous Delivery technology stack, including Docker, Chef, Vagrant, Jenkins, Graphite, the ELK stack, JBehave, and Gatling. He guides you through applying these technologies throughout build, continuous integration, load testing, acceptance testing, and monitoring. Wolff's start-to-finish example projects offer the basis for your own experimentation, pilot programs, and full-fledged deployments. A Practical Guide to Continuous Delivery is for everyone who wants to introduce Continuous Delivery, with or without DevOps. For managers, it introduces core processes, requirements, benefits, and technical consequences. Developers, administrators, and architects will gain essential skills for implementing and managing pipelines, and for integrating Continuous Delivery smoothly into software architectures and IT organizations. Understand the

problems that Continuous Delivery solves, and how it solves them Establish an infrastructure for maximum software automation Leverage virtualization and Platform as a Service (PAAS) cloud solutions Implement build automation and continuous integration with Gradle, Maven, and Jenkins Perform static code reviews with SonarQube and repositories to store build artifacts Establish automated GUI and textual acceptance testing with behavior-driven design Ensure appropriate performance via capacity testing Check new features and problems with exploratory testing Minimize risk throughout automated production software rollouts Gather and analyze metrics and logs with Elasticsearch, Logstash, Kibana (ELK), and Graphite Manage the introduction of Continuous Delivery into your enterprise Architect software to facilitate Continuous Delivery of new capabilities

Vagrant Virtual Development Environment Cookbook

Over 90 practical, actionable recipes to automate, test, and manage your infrastructure quickly and effectively About This Book Bring down your delivery timeline from days to hours by treating your server configurations and VMs as code, just like you would with software code. Take your existing knowledge and skill set with your existing tools (Puppet, Chef, or Docker) to the next level and solve IT infrastructure challenges. Use practical recipes to use code to provision and deploy servers and applications and have greater control of your infrastructure. Who This Book Is For This book is for DevOps engineers and

developers working in cross-functional teams or operations and would now switch to IAC to manage complex infrastructures. What You Will Learn Provision local and remote development environments with Vagrant Automate production infrastructures with Terraform, Ansible and Cloud-init on AWS, OpenStack, Google Cloud, Digital Ocean, and more Manage and test automated systems using Chef and Puppet Build, ship, and debug optimized Docker containers Explore the best practices to automate and test everything from cloud infrastructures to operating system configuration In Detail Infrastructure as Code (IAC) is a key aspect of the DevOps movement, and this book will show you how to transform the way you work with your infrastructure—by treating it as software. This book is dedicated to helping you discover the essentials of infrastructure automation and its related practices; the over 90 organized practical solutions will demonstrate how to work with some of the very best tools and cloud solutions. You will learn how to deploy repeatable infrastructures and services on AWS, OpenStack, Google Cloud, and Digital Ocean. You will see both Ansible and Terraform in action, manipulate the best bits from cloud-init to easily bootstrap instances, and simulate consistent environments locally or remotely using Vagrant. You will discover how to automate and test a range of system tasks using Chef or Puppet. You will also build, test, and debug various Docker containers having developers' interests in mind. This book will help you to use the right tools, techniques, and approaches to deliver working solutions for today's modern infrastructure challenges. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge

practices and techniques about IAC and solve immediate problems when trying to implement them.

Creating Development Environments with Vagrant - Second Edition

Mine the rich data tucked away in popular social websites such as Twitter, Facebook, LinkedIn, and Instagram. With the third edition of this popular guide, data scientists, analysts, and programmers will learn how to glean insights from social media—including who's connecting with whom, what they're talking about, and where they're located—using Python code examples, Jupyter notebooks, or Docker containers. In part one, each standalone chapter focuses on one aspect of the social landscape, including each of the major social sites, as well as web pages, blogs and feeds, mailboxes, GitHub, and a newly added chapter covering Instagram. Part two provides a cookbook with two dozen bite-size recipes for solving particular issues with Twitter. Get a straightforward synopsis of the social web landscape Use Docker to easily run each chapter's example code, packaged as a Jupyter notebook Adapt and contribute to the code's open source GitHub repository Learn how to employ best-in-class Python 3 tools to slice and dice the data you collect Apply advanced mining techniques such as TFIDF, cosine similarity, collocation analysis, clique detection, and image recognition Build

beautiful data visualizations with Python and JavaScript toolkits

Test-Driven Infrastructure with Chef

Annotation Over the past 10 years, distributed systems have become more fine-grained. From the large multi-million line long monolithic applications, we are now seeing the benefits of smaller self-contained services. Rather than heavy-weight, hard to change Service Oriented Architectures, we are now seeing systems consisting of collaborating microservices. Easier to change, deploy, and if required retire, organizations which are in the right position to take advantage of them are yielding significant benefits. This book takes an holistic view of the things you need to be cognizant of in order to pull this off. It covers just enough understanding of technology, architecture, operations and organization to show you how to move towards finer-grained systems.

The Art of Game Design

This book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure. It helps if you've already played around with Chef; however, this book covers all the important topics you will need to know. If you don't want to dig through a whole

book before you can get started, this book is for you, as it features a set of independent recipes you can try out immediately.

Learning Chef

Use Vagrant to easily build complete development environments Key Features Implement DevOps with Vagrant effectively Integrate Vagrant with different tools such as Puppet, Chef, and Docker Manage infrastructure with a practical approach Book Description Hands-On DevOps with Vagrant teaches you how to use Vagrant as a powerful DevOps tool and gives an overview of how it fits into the DevOps landscape. You will learn how to install VirtualBox and Vagrant in Windows, macOS, and Linux. You will then move on to understanding Vagrant commands, discovering its boxes and Vagrant Cloud. After getting to grips with the basics, the next set of chapters helps you to understand how to configure Vagrant, along with networking. You will explore multimachine, followed by studying how to create multiple environments and the communication between them. In addition to this, you will cover concepts such as Vagrant plugins and file syncing. The last set of chapters provides insights into provisioning shell scripts, also guiding you in how to use Vagrant with configuration management tools such as Chef, Ansible, Docker, Puppet, and Salt. By the end of this book, you will have grasped Vagrant's features and how to use them for your benefit with the help of tips and tricks. What you will learn Explore what development features Vagrant offers Install Vagrant and

VirtualBox on Windows, macOS and Linux Harness the power of Vagrant to create powerful development environments Utilize DevOps tools such as Docker, Chef, and Puppet Understand everything about Vagrant, including networking, plugins, and provisioning Use the Vagrant Cloud to install and manage Vagrant boxes Who this book is for Hands-On DevOps with Vagrant is for you if you are a system administrator, DevOps engineer, DevOps architect, or any stakeholder working with DevOps and wanting to explore Vagrant. Experience in system administration is needed to enjoy this book.

Mastering Chef

Summary Docker in Practice, Second Edition presents over 100 practical techniques, hand-picked to help you get the most out of Docker. Following a Problem/Solution/Discussion format, you'll walk through specific examples that you can use immediately, and you'll get expert guidance on techniques that you can apply to a whole range of scenarios. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Docker's simple idea-wrapping an application and its dependencies into a single deployable container-created a buzz in the software industry. Now, containers are essential to enterprise infrastructure, and Docker is the undisputed industry standard. So what do you do after you've mastered the basics? To really streamline your applications and transform your dev process, you need relevant

examples and experts who can walk you through them. You need this book. About the Book Docker in Practice, Second Edition teaches you rock-solid, tested Docker techniques, such as replacing VMs, enabling microservices architecture, efficient network modeling, offline productivity, and establishing a container-driven continuous delivery process. Following a cookbook-style problem/solution format, you'll explore real-world use cases and learn how to apply the lessons to your own dev projects. What's inside Continuous integration and delivery The Kubernetes orchestration tool Streamlining your cloud workflow Docker in swarm mode Emerging best practices and techniques About the Reader Written for developers and engineers using Docker in production. About the Author Ian Miell and Aidan Hobson Sayers are seasoned infrastructure architects working in the UK. Together, they used Docker to transform DevOps at one of the UK's largest gaming companies. Table of Contents PART 1 - DOCKER FUNDAMENTALS Discovering Docker Understanding Docker: Inside the engine room PART 2 - DOCKER AND DEVELOPMENT Using Docker as a lightweight virtual machine Building images Running containers Day-to-day Docker Configuration management: Getting your house in order PART 3 - DOCKER AND DEVOPS Continuous integration: Speeding up your development pipeline Continuous delivery: A perfect fit for Docker principles Network simulation: Realistic environment testing without the pain PART 4 - ORCHESTRATION FROM A SINGLE MACHINE TO THE CLOUD A primer on container orchestration The data center as an OS with Docker Docker platforms PART 5 - DOCKER IN PRODUCTION Docker and security Plain sailing: Running Docker in

production Docker in production: Dealing with challenges

Configuration Management with Chef-Solo

Printed in full color. Software development happens in your head. Not in an editor, IDE, or designtool. You're well educated on how to work with software and hardware, but what about wetware--our own brains? Learning new skills and new technology is critical to your career, and it's all in your head. In this book by Andy Hunt, you'll learn how our brains are wired, and how to take advantage of your brain's architecture. You'll learn new tricks and tipsto learn more, faster, and retain more of what you learn. You need a pragmatic approach to thinking and learning. You need to Refactor Your Wetware. Programmers have to learn constantly; not just the stereotypical new technologies, but also the problem domain of the application, the whims of the user community, the quirks of your teammates, the shifting sands of the industry, and the evolving characteristics of the project itself as it is built. We'll journey together through bits of cognitive and neuroscience, learning and behavioral theory. You'll see some surprising aspects of how our brains work, and how you can take advantage of the system to improve your own learning and thinking skills. In this book you'll learn how to: Use the Dreyfus Model of Skill Acquisition to become more expert Leverage the architecture of the brain to strengthen different thinking modes Avoid common "known bugs" in your mind Learn more deliberately and more effectively Manage knowledge more efficiently

Mining the Social Web

This book is the "Hello, World" tutorial for building products, technologies, and teams in a startup environment. It's based on the experiences of the author, Yevgeniy (Jim) Brikman, as well as interviews with programmers from some of the most successful startups of the last decade, including Google, Facebook, LinkedIn, Twitter, GitHub, Stripe, Instagram, AdMob, Pinterest, and many others. Hello, Startup is a practical, how-to guide that consists of three parts: Products, Technologies, and Teams. Although at its core, this is a book for programmers, by programmers, only Part II (Technologies) is significantly technical, while the rest should be accessible to technical and non-technical audiences alike. If you're at all interested in startups—whether you're a programmer at the beginning of your career, a seasoned developer bored with large company politics, or a manager looking to motivate your engineers—this book is for you.

A Practical Guide to Continuous Delivery

Over 80 incredibly effective recipes to manage day-to-day complications in your infrastructureAbout This Book* Immediately apply Devops techniques and methods, then combine them with powerful Chef tools to manage and automate your infrastructure* Address the growing challenges of code management, cloud,

and virtualization with Chef quickly* Explore and implement the important aspects of Chef Automate using this recipe-based guideWho This Book Is ForThis book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure. It is also for DevOps Engineers, IT professionals, and organizations who want to automate and gain greater control of their infrastructures with Chef. It helps if you've already played around with Chef.What you will learn* Test your cookbooks with Test Kitchen* Manage cookbook dependencies with Berkshelf* Use reporting to keep track of what happens during the execution of chef-client runs across all of the machines* Create custom Ohai and Knife plugins* Build a high-availability service using Heartbeat* Use a HAProxy to load-balance multiple web serversIn DetailChef is a configuration management tool that lets you automate your more cumbersome IT infrastructure processes and control a large network of computers (and virtual machines) from one master server.This book will help you solve everyday problems with your IT infrastructure with Chef. In this edition, you will get to know more about Chef Automate, which consists of three important aspects: Infrastructure, Application, and Compliance Automation. It will start with recipes that show you how to effectively manage your infrastructure and solve problems with users, applications, and automation. You will then come across a new testing framework, InSpec, to test any node in your infrastructure.Further on, you will learn to customize plugins and write cross-platform cookbooks depending on the platform. You will also install packages from a third-party repository and learn how to

manage users and applications. Toward the end, you will build high-availability services and explore what Habitat is and how you can implement it.

The Logstash Book

Get to grips with a new technology, understand what it is and what it can do for you, and then get to work with the most important features and tasks.This is a practical Starter guide which helps you gain the skills needed to learn Chef.This book is aimed at developers and system administrators who are looking for ways to better manage complex infrastructures in a consistent fashion. No previous experience with Chef is assumed.

Why's (Poignant) Guide to Ruby

DuBois organizes his cookbook's recipes into sections on the problem, the solution stated simply, and the solution implemented in code and discussed. The implementation and discussion sections are the most valuable, as they contain the command sequences, code listings, and design explanations that can be transferred to outside projects.

Infrastructure as Code (IAC) Cookbook

This book is aimed at developers and devops that have a GitLab server running, and want to be sure they use it to its full potential. This book will also be useful for people looking for a great Git platform, and learn how to set it up successfully. Some system administrating experience on a UNIX-based system would be useful, but is not required.

AWS Certified Developer Official Study Guide, Associate Exam

This IBM® Redbooks® publication takes you on a hybrid cloud journey with IBM PureApplication® System and PureApplication Service: from the what, over the why, and to the how. We outline the needs for a hybrid PureApplication cloud and we describe how to build a strategy. We provide advice about the components, including security. Through use cases, we define the need and the strategy for a hybrid cloud implementation with IBM PureApplication System, Software, or Service. The target audience for this book varies from anyone who is interested in learning more about a true hybrid cloud solution from IBM to strategists, IT architects, and IT specialists who want an overview of what is required to build a hybrid cloud with IBM PureApplication family members.

Chef Infrastructure Automation Cookbook - Second Edition

"There's an incredible amount of depth and thinking in the practices described here, and it's impressive to see it all in one place." —Win Treese, coauthor of Designing Systems for Internet Commerce The Practice of Cloud System Administration, Volume 2, focuses on "distributed" or "cloud" computing and brings a DevOps/SRE sensibility to the practice of system administration. Unsatisfied with books that cover either design or operations in isolation, the authors created this authoritative reference centered on a comprehensive approach. Case studies and examples from Google, Etsy, Twitter, Facebook, Netflix, Amazon, and other industry giants are explained in practical ways that are useful to all enterprises. The new companion to the best-selling first volume, The Practice of System and Network Administration, Second Edition, this guide offers expert coverage of the following and many other crucial topics: Designing and building modern web and distributed systems Fundamentals of large system design Understand the new software engineering implications of cloud administration Make systems that are resilient to failure and grow and scale dynamically Implement DevOps principles and cultural changes IaaS/PaaS/SaaS and virtual platform selection Operating and running systems using the latest DevOps/SRE strategies Upgrade production systems with zero down-time What and how to automate; how to decide what not to automate On-call best practices that improve uptime Why distributed systems require fundamentally different system administration techniques Identify and resolve resiliency problems before they surprise you Assessing and evaluating your team's operational effectiveness

Manage the scientific process of continuous improvement A forty-page, pain-free assessment system you can start using today

Docker in Practice

Foreword by Werner Vogels, Vice President and Corporate Technology Officer, Amazon The AWS exam has been updated. Your study guide should be, too. The AWS Certified Developer Official Study Guide–Associate Exam is your ultimate preparation resource for the latest exam! Covering all exam objectives, this invaluable resource puts a team of AWS experts at your side with expert guidance, clear explanations, and the wisdom of experience with AWS best practices. You'll master core services and basic architecture, and equip yourself to develop, deploy, and debug cloud-based applications using AWS. The AWS Developer certification is earned by those who demonstrate the technical knowledge and skill associated with best practices for building secure, reliable cloud-based applications using AWS technology. This book is your official exam prep companion, providing everything you need to know to pass with flying colors. Study the AWS Certified Developer Exam objectives Gain expert insight on core AWS services and best practices Test your understanding of key concepts with challenging chapter questions Access online study tools including electronic flashcards, a searchable glossary, practice exams, and more Cloud computing offers businesses the opportunity to replace up-front capital infrastructure expenses with low, variable costs that scale as they

grow. This customized responsiveness has negated the need for far-future infrastructure planning, putting thousands of servers at their disposal as needed—and businesses have responded, propelling AWS to the number-one spot among cloud service providers. Now these businesses need qualified AWS developers, and the AWS certification validates the exact skills and knowledge they're looking for. When you're ready to get serious about your cloud credentials, the AWS Certified Developer Official Study Guide–Associate Exam is the resource you need to pass the exam with flying colors. NOTE: As of October 7, 2019, the accompanying code for hands-on exercises in the book is available for downloading from the secure Resources area in the online test bank. You'll find code for Chapters 1, 2, 11, and 12.

Client-Server Web Apps with JavaScript and Java

Since Test-Driven Infrastructure with Chef first appeared in mid-2011, infrastructure testing has begun to flourish in the web ops world. In this revised and expanded edition, author Stephen Nelson-Smith brings you up to date on this rapidly evolving discipline, including the philosophy driving it and a growing array of tools. You'll get a hands-on introduction to the Chef framework, and a recommended toolchain and workflow for developing your own test-driven production infrastructure. Several exercises and examples throughout the book help you gain experience with Chef and the entire infrastructure-testing

ecosystem. Learn how this test-first approach provides increased security, code quality, and peace of mind. Explore the underpinning philosophy that infrastructure can and should be treated as code Become familiar with the MASCOT approach to test-driven infrastructure Understand the basics of test-driven and behavior-driven development for managing change Dive into Chef fundamentals by building an infrastructure with real examples Discover how Chef works with tools such as Virtualbox and Vagrant Get a deeper understanding of Chef by learning Ruby language basics Learn the tools and workflow necessary to conduct unit, integration, and acceptance tests

Pragmatic Thinking and Learning

Follow along with Chef expert Abhishek Srivastava and learn all about the techniques and tools to organize your leads and grow your business. There are 12 topics in this course: Introducing Chef . Be able to explain Chef and its use cases during this first topic in the Chef Complete Guide. From Wikipedia: Chef is a company and the name of a configuration management tool written in Ruby and Erlang. It uses a pure-Ruby, domain-specific language (DSL) for writing system configuration "recipes". Chef is used to streamline the task of configuring and maintaining a company's servers, and can integrate with cloud-based platforms such as Internap, Amazon EC2, Google Cloud Platform, Oracle Cloud, OpenStack, SoftLayer, Microsoft Azure, and Rackspace to automatically provision and configure

new machines. Chef contains solutions for both small and large scale systems, with features and pricing for the respective ranges. More on Chef . Learn more about this powerful configuration tool during this second topic in the Chef Complete Guide. Also become familiar with the Chef Framework, as well as Chef clients and servers. Learn about the application and infrastructure features of Chef. Configuration Management . Become comfortable with configuration management during this third topic in the Chef Complete Guide. Infrastructure as Code . Understand infrastructure as code during this fourth topic in the Chef Complete Guide. Learn how infrastructure as code makes our lives much easier in rolling out new development to multiple servers. Be introduced to some important Chef concepts including Recipe, Cookbook, Resource, File, and Metadata.rb. Chef Components . Become comfortable with all of the components of Chef during this fifth topic in the Chef Complete Guide. Components include recipes, cookbooks, servers, clients, and nodes. Chef Architecture . Appreciate the Chef three-tier client server architecture during this sixth topic in the Chef Complete Guide. Chef Flavors . Become comfortable with various flavors of Chef during this seventh topic in the Chef Complete Guide. This includes Chef Solo, Chef Server, Chef Client/Server, and Private Chef. Hands-on Chef Part 1 . Practice working with the Chef workstation, server, and node during this eighth topic in the Chef Complete Guide. Hands-on Chef Part 2 . Continue practicing with the Chef workstation, server, and node during this ninth topic in the Chef Complete Guide. Hands-on Chef Part 3 . Continue working with the

Managing Windows Servers with Chef

Automate your computing systems with Puppet, the popular configuration management framework. Through code samples and real-world examples, this concise introduction shows you how to use Puppet tools and templates to organize and execute configuration plans on your *nix servers. Learn how to manage pools of servers and virtual instances, and discover how Puppet helps you administer access control. If you're familiar with system administration and Ruby language basics, this book is the ideal way to get up to speed on this open source framework. Install Puppet and learn its manifest syntax and built-in functions Store configurations in a central location with Puppet Master, and define which configurations apply to which nodes Build a framework to create user accounts in place of LDAP or Kerberos KDC Apply techniques to execute and manage server configurations with MCollective Use Puppet as an auditing tool to ensure that configurations are correct Gather information on the nodes you manage with the Facter library

GitLab Cookbook

If you are a developer who wants to have your development environment accurately reflect your live servers to tackle the ever-increasing complexity of web

and software projects, this book is most certainly intended for you! It's assumed that you know the basics of Linux systems in the context of web-based projects.

Ansible for DevOps

Design, implement, and publish custom Splunk applications by following best practices About This Book This is the most up-to-date guide on the market and will help you finish your tasks faster, easier, and more efficiently. Highly practical guide that addresses common and not-so-common pain points in Splunk. Want to explore shortcuts to perform tasks more efficiently with Splunk? This is the book for you! Who This Book Is For This book is for administrators, developers, and search ninjas who have been using Splunk for some time. A comprehensive coverage makes this book great for Splunk veterans and newbies alike. What You Will Learn Use Splunk effectively to gather, analyze, and report on operational data throughout your environment Expedite your reporting, and be empowered to present data in a meaningful way Create robust searches, reports, and charts using Splunk Modularize your programs for better reusability. Build your own Splunk apps and learn why they are important Learn how to integrate with enterprise systems Summarize data for longer term trending, reporting, and analysis In Detail This book will give you an edge over others through insights that will help you in day-to-day instances. When you're working with data from various sources in Splunk and performing analysis on this data, it can be a bit tricky. With this book, you will learn

the best practices of working with Splunk. You'll learn about tools and techniques that will ease your life with Splunk, and will ultimately save you time. In some cases, it will adjust your thinking of what Splunk is, and what it can and cannot do. To start with, you'll get to know the best practices to get data into Splunk, analyze data, and package apps for distribution. Next, you'll discover the best practices in logging, operations, knowledge management, searching, and reporting. To finish off, we will teach you how to troubleshoot Splunk searches, as well as deployment, testing, and development with Splunk. Style and approach If you're stuck or want to find a better way to work with Splunk environment, this book will come handy. This easy-to-follow, insightful book contains step-by-step instructions and examples and scenarios that you will connect to.

Test-Driven Infrastructure with Chef

As a Java programmer, how can you tackle the disruptive client-server approach to web development? With this comprehensive guide, you'll learn how today's client-side technologies and web APIs work with various Java tools. Author Casimir Saternos provides the big picture of client-server development, and then takes you through many practical client-server architectures. You'll work with hands-on projects in several chapters to get a feel for the topics discussed. User habits, technologies, and development methods have drastically altered web app design in recent years. But the Web itself hasn't changed. This book shows you how to

build apps that conform to the web's underlying architecture. Learn the advantages of using separate client and server tiers, including code organization and speedy prototyping Explore the major tools, frameworks, and starter projects used in JavaScript development Dive into web API design and REST style of software architecture Understand Java's alternatives to traditional packaging methods and application server deployment Build projects with lightweight servers, using jQuery with Jython, and Sinatra with Angular Create client-server web apps with traditional Java web application servers and libraries

Learning Chef

Harness the power of DevOps to boost your skill set and make your IT organization perform better About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Improve your organization's performance to ensure smooth production of software and services Deploy top-quality software and ensure software maintenance and release management with this practical guide Who This Book Is For This book is aimed at developers and system administrators who wish to take on larger responsibilities and understand how the infrastructure that builds today's enterprises works. This book is also great for operations personnel who would like to better support developers. You do not need to have any previous knowledge of DevOps. What You Will Learn Appreciate the merits of DevOps and

continuous delivery and see how DevOps supports the agile process Understand how all the systems fit together to form a larger whole Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with Devops in mind Store and manage your code effectively using different options such as Git, Gerrit, and Gitlab Configure a job to build a sample CRUD application Test the code using automated regression testing with Jenkins Selenium Deploy your code using tools such as Puppet, Ansible, Palletops, Chef, and Vagrant Monitor the health of your code with Nagios, Munin, and Graphite Explore the workings of Trac—a tool used for issue tracking In Detail DevOps is a practical field that focuses on delivering business value as efficiently as possible. DevOps encompasses all the flows from code through testing environments to production environments. It stresses the cooperation between different roles, and how they can work together more closely, as the roots of the word imply—Development and Operations. After a quick refresher to DevOps and continuous delivery, we quickly move on to looking at how DevOps affects architecture. You'll create a sample enterprise Java application that you'll continue to work with through the remaining chapters. Following this, we explore various code storage and build server options. You will then learn how to perform code testing with a few tools and deploy your test successfully. Next, you will learn how to monitor code for any anomalies and make sure it's running properly. Finally, you will discover how to handle logs and keep track of the issues that affect processes Style and approach This book is primarily

a technical guide to DevOps with practical examples suitable for people who like to learn by implementing concrete working code. It starts out with background information and gradually delves deeper into technical subjects.

Chef Complete Guide

Chef is a configuration management tool that turns IT infrastructure into code. Chef provides tools to manage systems at scale. This book will take you through the Chef code, tools, and components to manage your environments using the Chef server efficiently. The book starts with an introduction to the Chef ecosystem, taking you through the terminologies used in Chef, the anatomy of a chef-client run, and Chef solo. You will learn how to use Knife and its associated plugins to accomplish daily routine tasks in a more efficient way. You will also learn how to speed this up by using Ruby with Chef, which will allow you to write more efficient infrastructure code. This book then introduces you to cookbooks and how to extend chef-client through the use of Lightweight Resource/Provider. It tells you how to keep all kind of configurations in key-value pair efficiently, by introducing you to data bags and templates. Then you will get a walkthrough of Chef's wonderful APIs and the extended functionalities of Chef. By the end of the book you will be so well-versed with Chef that you'll be able to explore some fun uses of Chef, which will allow for better productivity.

Managing Infrastructure with Puppet

If you are a software developer or administrator who wishes to create simple, reusable environments using Vagrant, this book is the perfect choice for you. Whether you are a system administrator with extensive experience in virtualization or a developer wishing to create development scripts for cloud deployment, you will find easy-to-follow recipes and techniques in this book that will allow you to create robust and reproducible virtual environments.

Chef Cookbook - Third Edition

This is a guide to automating Windows infrastructures using Chef, from the big picture through to hands-on examples. This book is designed for systems administrators who have had some exposure to Chef and are interested using it to manage their Windows-based systems. Some exposure to programming or scripting languages is expected for portions of this book.

Hands-On DevOps with Vagrant

If you want to learn how to use Ansible to automate an infrastructure, either from scratch or to augment your current tooling with Ansible, then this is the book for

you. It has plenty of practical examples to help you get to grips with Ansible.

Implementing DevOps with Microsoft Azure

Ansible is a simple, but powerful, server and configuration management tool. Learn to use Ansible effectively, whether you manage one server--or thousands.

MySQL Cookbook

From lambda expressions and JavaFX 8 to new support for network programming and mobile development, Java 8 brings a wealth of changes. This cookbook helps you get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from debugging and data structures to GUI development and functional programming. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you are familiar with Java basics, this cookbook will bolster your knowledge of the language in general and Java 8's main APIs in particular. Recipes include: Methods for compiling, running, and debugging Manipulating, comparing, and rearranging text Regular expressions for string- and pattern-matching Handling numbers, dates, and times Structuring data with collections, arrays, and other types Object-oriented and functional programming

techniques Directory and filesystem operations Working with graphics, audio, and video GUI development, including JavaFX and handlers Network programming on both client and server Database access, using JPA, Hibernate, and JDBC Processing JSON and XML for data storage Multithreading and concurrency

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION